



# Investing In LA Highway 1 Preserves Economy, Environment and Coastal Infrastructure

**LA CPRA Presentation**

**October 15, 2014**



# LA 1 Is Critical Coastal Infrastructure



- Coastal Restoration and Protection
- Emergency Response
- Hurricane Evacuation
- Energy Supply
- Federal OCS Revenue
- American Jobs and Economy

**America Needs LA 1!**

# LA1 Provides Access and Efficiency for Large Scale Projects

- Significant Barataria and Terrebonne basin projects will likely be serviced by lower LA1, as well as Barrier Island Restorations in Lafourche and Terrebonne Parishes
- This will increase demand for sustainable use of LA1



The Caminada Headland Shoreline Restoration Project  
(\$144 million planned)

# LA 1 is Proven to be Critical to Environmental Response in GOM



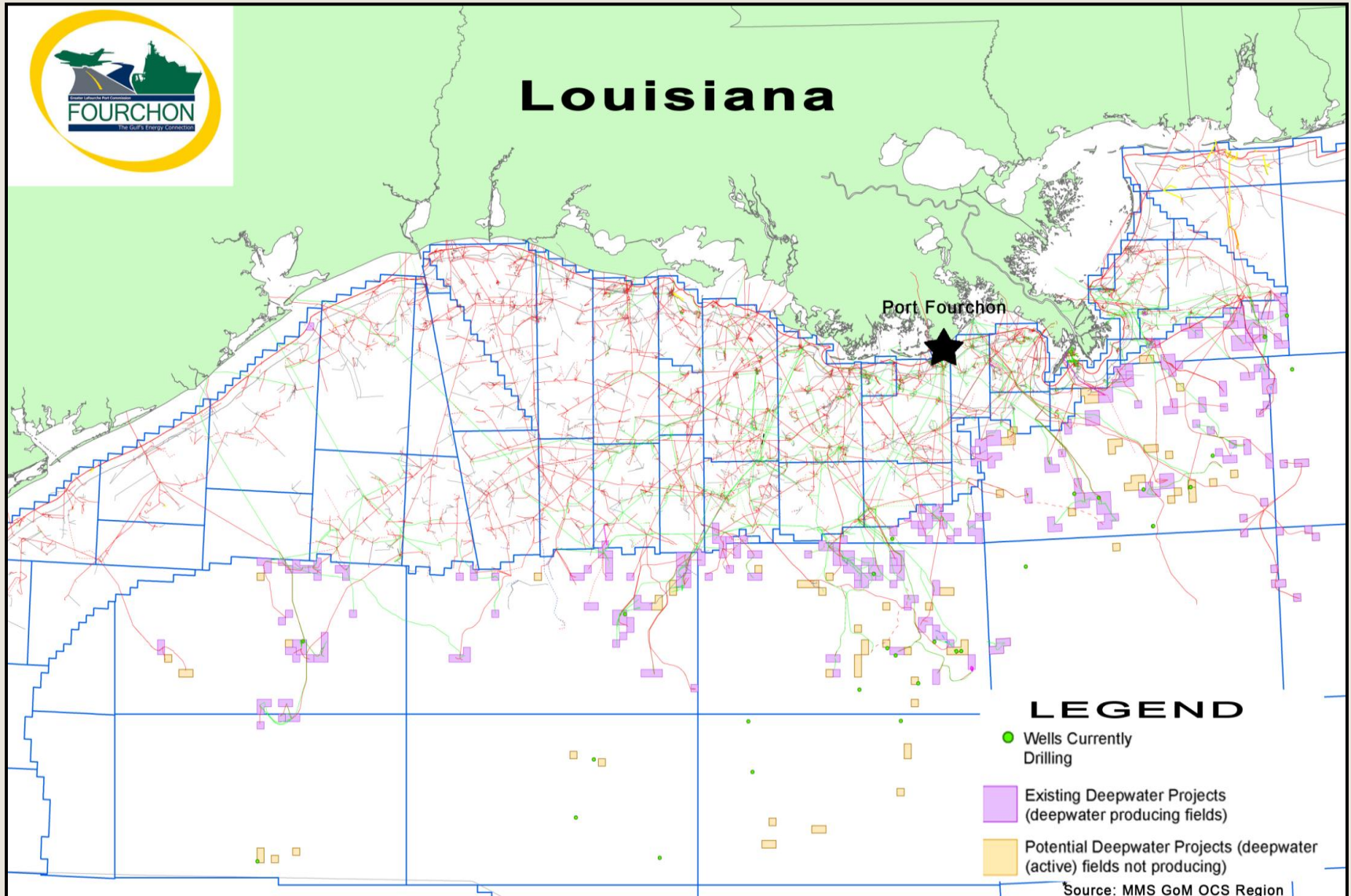
- LA1 played a key access role in the Macondo Response given the location of dispatched vessels at Port Fourchon
- While drilling safety regulations are stronger, the likelihood of a next disaster occurring during a hurricane is real. It is imperative we have an elevated LA1 to effectively respond during a storm scenario.



# LA1 is the ONLY Highway Evacuation and Response Route for Grand Isle

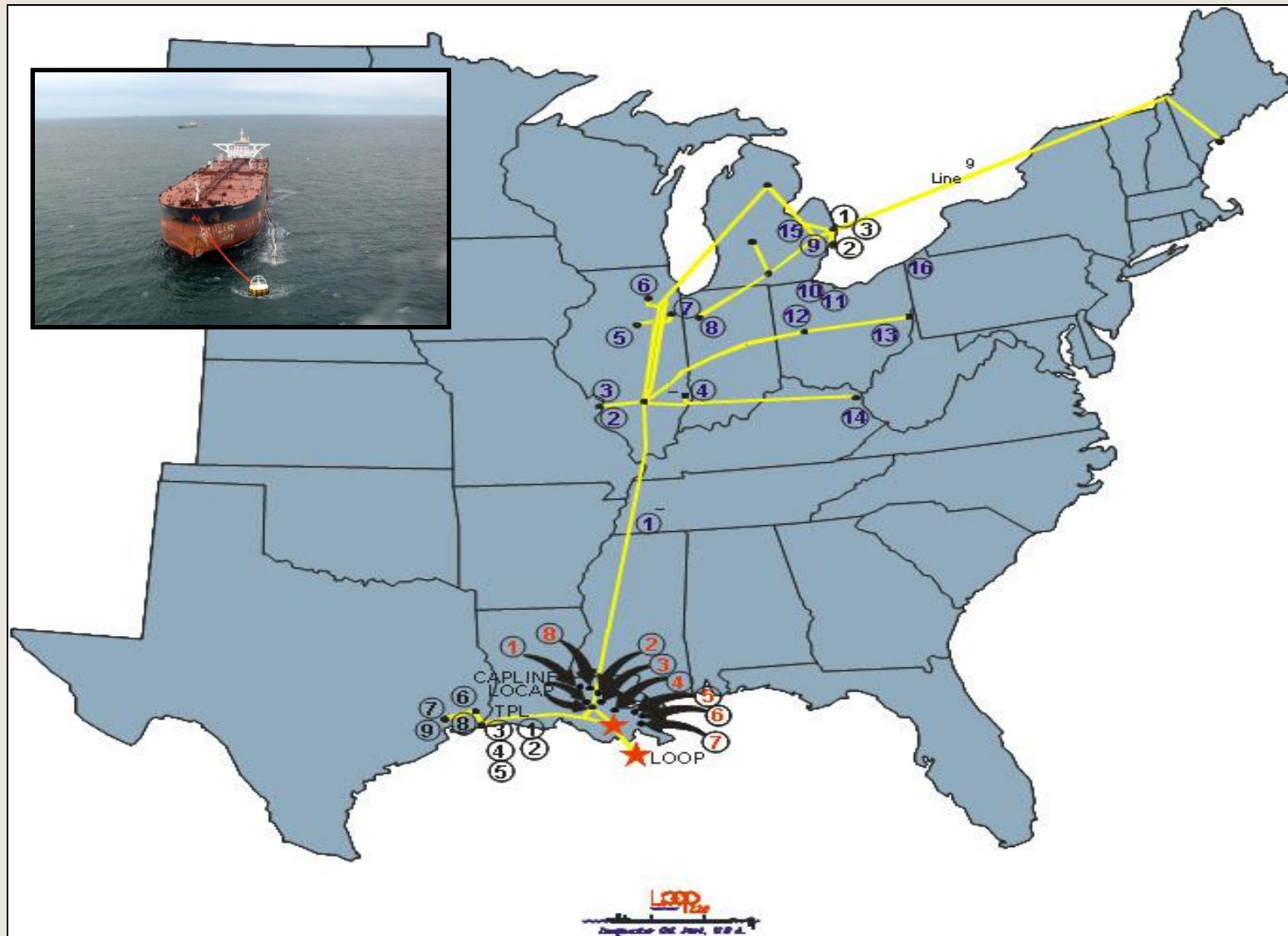


# LA 1/Fourchon is expected to serve 95% of Deepwater Activity in GOM





# LA 1 is the only highway access to LOOP – America's Deepwater Oil Port



# LA 1 Closures have increased

Hurricane Lilly - September 21, 2002  
Hurricane Isidore - September 26, 2002  
Tropical Storm Bill - June 30, 2003  
Hurricane Ivan - September 15, 2004  
Tropical Storm Matthew - October 10, 2004  
Hurricane Cindy - July 5, 2005  
Hurricane Dennis - July 13, 2005  
Hurricane Katrina - August 29, 2005 (4 day closure)  
Hurricane Rita - September 26, 2005 (5 day closure)  
Hurricane Gustav - August 31, 2008 (5 day closure)  
Hurricane Ike - September 11, 2008 (6 day closure)  
Tropical Storm Lee - Friday, September 16, 2011 (3 day closure)  
Hurricane Issac - Tuesday, August 28, 2012 (4 day closure)

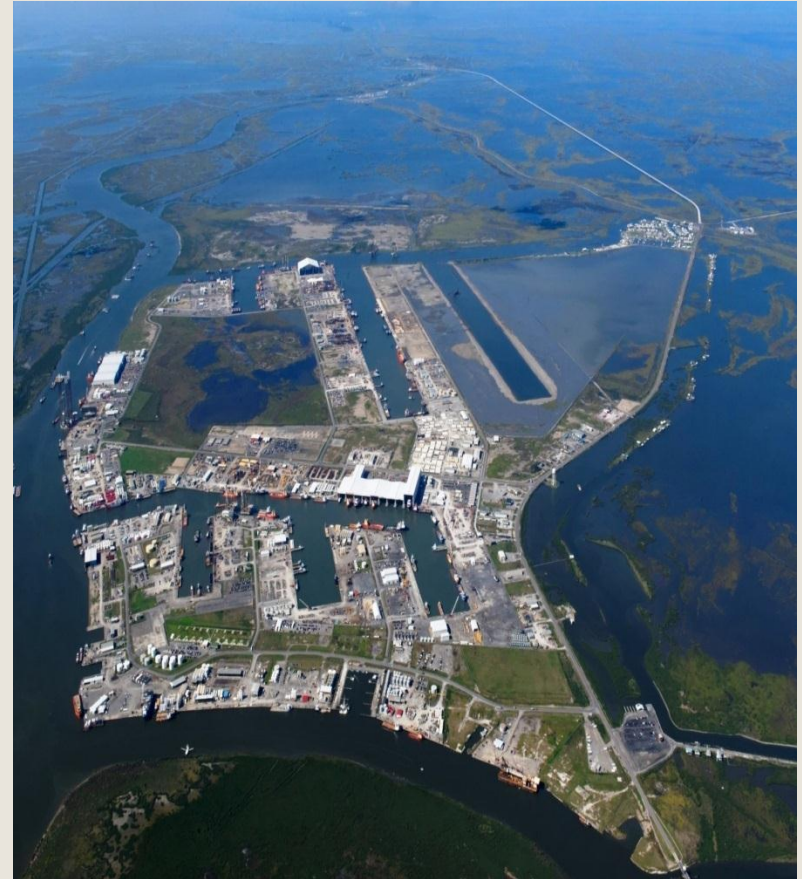


**Highway closed 34 days from 2002-2012**



# Port Fourchon Economic Impact

- \$2.67 Billion in Business Sales
- Nearly \$1 Billion in assessed property value at Port Fourchon in 2013 in addition to \$2 billion of watercraft
- 1 in every 13 jobs in the region connected to Port Fourchon



**LA 1 is the ONLY highway access to this thriving economic engine!**

# Federal Studies Have Documented Vulnerability of LA 1



National Infrastructure Simulation and Analysis Center  
Risk Development and Modeling Branch  
Homeland Infrastructure Threat and Risk Analysis Center  
Office of Infrastructure Protection

*In Collaboration with*  
The National Incident Management Systems  
and Advanced Technologies Institute at  
The University of Louisiana at Lafayette

*Louisiana Highway 1/Port Fourchon Study*  
July 15, 2011

Homeland Security

Coastal Marine Institute  
OCS Study  
MMS 2001-019

Lafourche Parish and Port Fourchon,  
Louisiana: Effects of the Outer Continental  
Shelf Petroleum Industry on the Economy  
and Public Services, Part 1

MMS U.S. Department of the Interior  
Minerals Management Service  
Gulf of Mexico OCS Region

Cooperative Agreement  
Coastal Marine Institute  
Louisiana State University

Global Sea Level Rise Scenarios for the  
United States National Climate Assessment

December 6, 2012

NOAA USGS SERDP US Army Corps of Engineers

GAO Report to Congress

April 2013

CLIMATE CHANGE

Future Federal  
Adaptation Efforts  
Could Better Support  
Local Infrastructure  
Decision Makers

GAO  
Accountability • Integrity • Reliability

Estimated Effects of RSLR on Frequency and Duration of Inundation for Leeville, LA using observations 1987-1990 and then projecting this 4-year time period forward using present rate of sea level rise

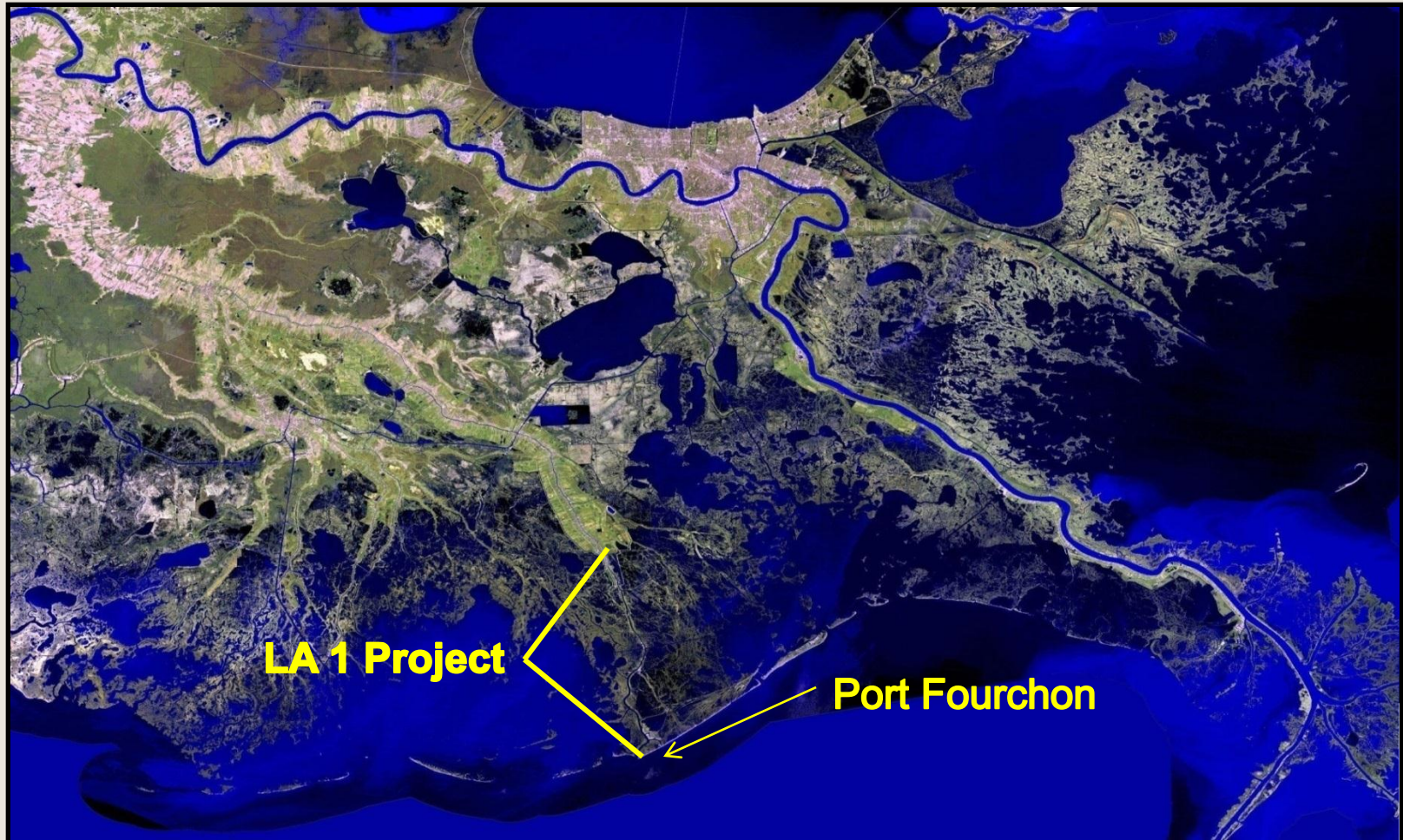
Using "5%" LA-1 elevation of 0.78m NAVD88 (1993)

4-yr Time Period	RSLR rate mm/yr	Occurrences of Inundation (over 4-years) (# of tides)	Duration of Inundation (over 4- years) (hours (percent of total time))	Elevation Rise Above 1990 MSL (meters)
1987- 1990	9.24	0	0 (0%)	-
2027-2030	9.24	124	960(6%)	0.3
2047- 2050	9.24	1127	19163(55%)	0.6
2097- 2100	9.24	1334	33699(96%)	1.0



# THE SOLUTION:

**LA 1 Improvement Project - A 19-mile Elevated Highway from Golden Meadow to Port Fourchon**





# Numerous Agencies Participated in LA 1 Project EIS Record of Decision



LOUISIANA DEPARTMENT OF  
TRANSPORTATION & DEVELOPMENT



# Documented LA 1 Project Benefits



## Environment:

- Enhanced access for coastal restoration projects
- End-on construction and beneficial use of dredge material

## Security:

- Strengthens homeland, energy and economic security

## Safety:

- Improved evacuation and post-storm recovery route
- Enhanced emergency response
- Elevated roadway, wide shoulders, retention walls

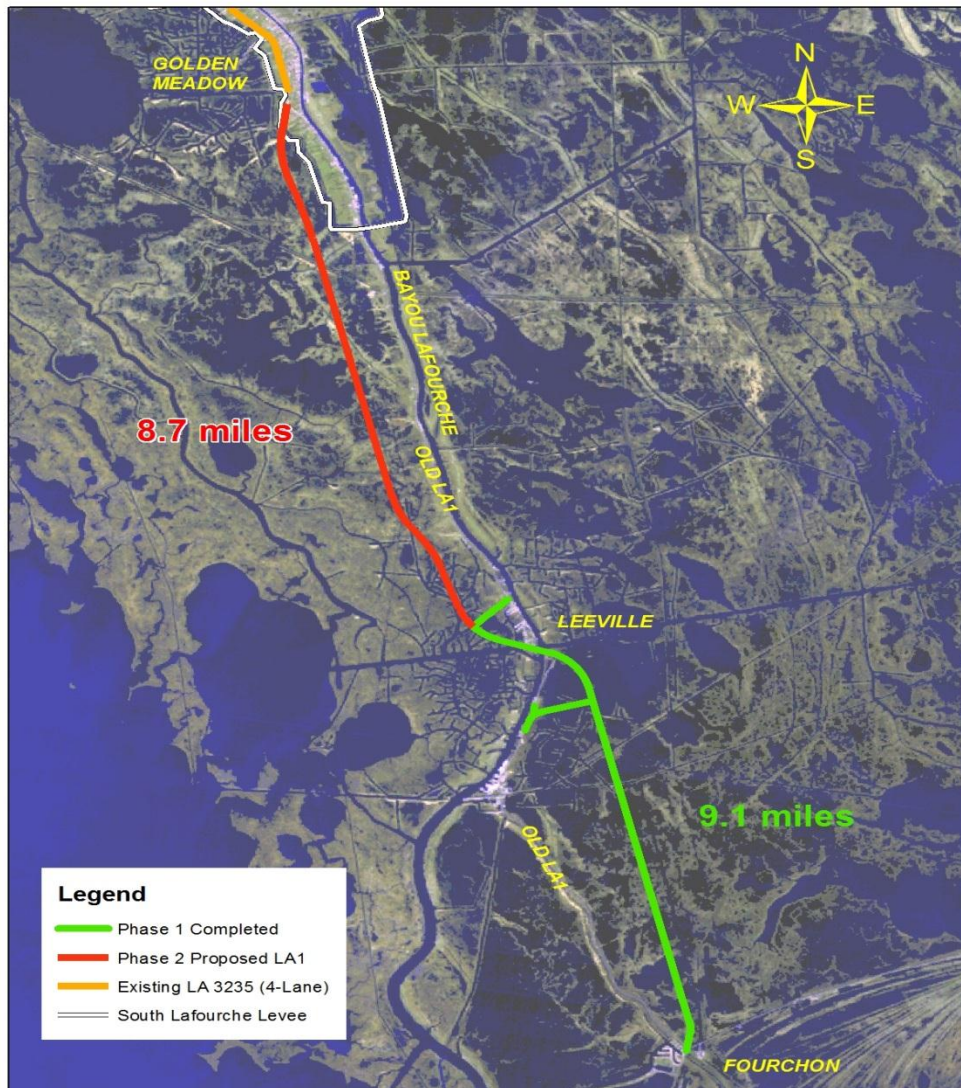




05/23/2010



# LA 1 Improvement Project Status

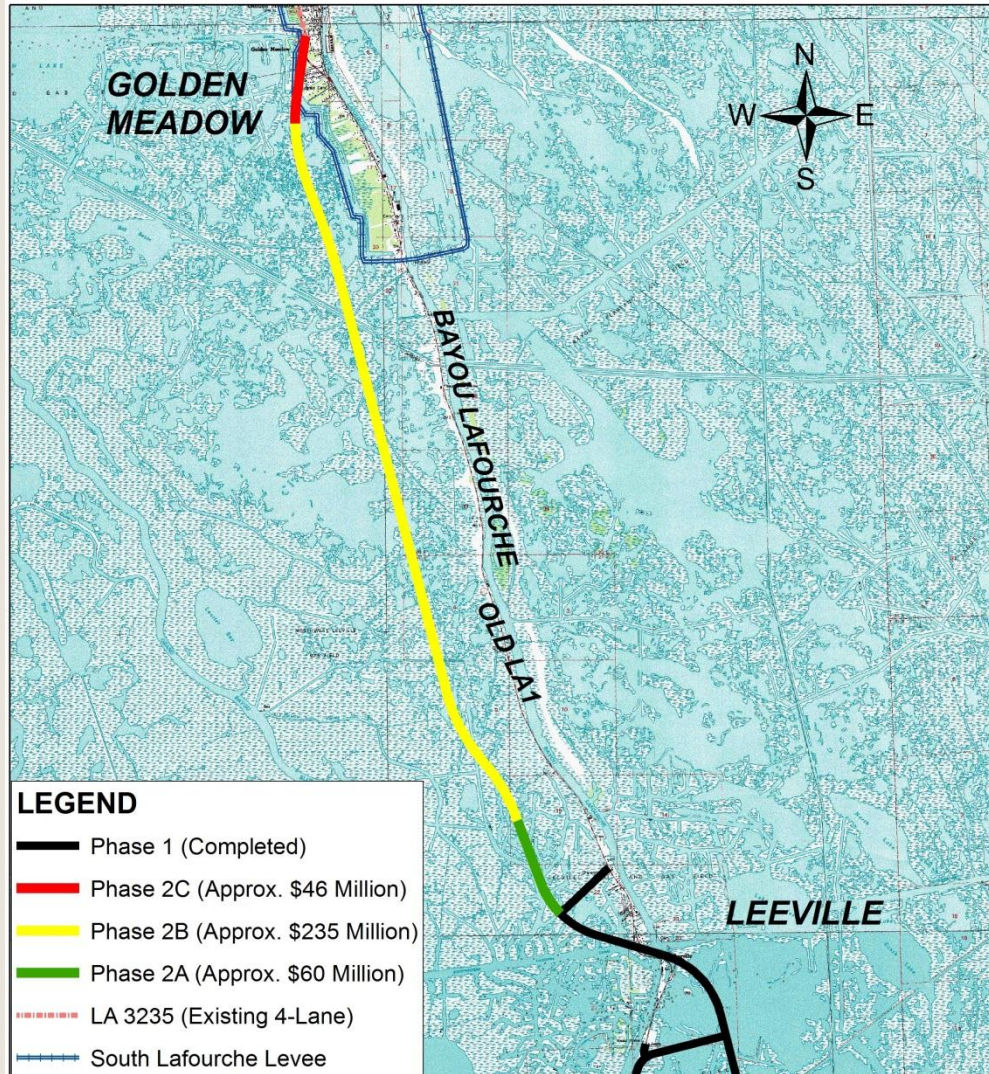


- \$375 million invested
- 11 miles of elevated structure completed
- 8.3 miles of remaining structure needed
- DOTD/FHWA have approved 3 segment, construction-friendly plan forward



# Plan for Completing Elevated LA 1:

3 Segments remain- \$46 million, \$235 million and \$60 million



## Phase 2C (red) - \$46 Million

- \$40 million from State Capital Outlay Program
- \$6.6 million from Industry as Match

## Phase 2B (yellow) - \$235 Million

- RESTORE Act Program
- OCS Revenue Sharing Program
- USDOT TIGER Grant Program

## Phase 2A (green) - \$60 Million

- \$50 million from State Capital Outlay Program
- \$10 million from Industry as Match



**LA 1 Project is being built with a cost effective, environmental friendly method**





# Phase 1 - Elevated highway replaced 11 miles of at-grade highway Leeville to Fourchon



# NEW Leeville Fixed Span Bridge Opened in 2009



# LA 1 Project Meets Goals for RESTORE Act Funding



## **ENHANCE COMMUNITY RESILIENCY**

- LA 1 Project is the poster child for community resiliency providing long-term economic sustainability
- Elevated LA 1 designed to clear FEMA flood map heights and provide a dependable hurricane evacuation route

## **RESTORE AND REVITALIZE ECONOMY**

- Up to 1,000 construction jobs over 3 years

## **RESTORE AND CONSERVE HABITAT**

- Vital, dependable access to large-scale restoration projects

## **REPLENISH and PROTECT MARINE RESOURCES**

- Elevated LA1 provides quick access to respond to disasters
- Access to Oyster Research Station to restore depleted oyster reef population



# Time is running out for this Critical, At-Risk Energy Infrastructure.

